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# NOTICE OF ALLOWANCE AND FEE(S) DUE

21839

7590

11/15/2010

BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404 EXAMINER

BYTHROW, PETER M

ART UNIT PAPER NUMBER

3662

DATE MAILED: 11/15/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594.428	09/26/2006	Hiroshi Touge	1034290-000005	3252

TITLE OF INVENTION: CONDITION DETECTING SENSOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/15/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

maintenance fee notifica	ock 1 for any change of address)	<u> </u>	Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, in have its own certificate of mailing or transmission.				
<sup>21839</sup> BUCHANAN, POST OFFICE I ALEXANDRIA	72010 ROONEY PC			have its own certificate of mailing or transmission.  Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
			[				(Depositor's name)
							(Signature)
			l				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR	A	ITORNEY DOCKET NO.	CONFIRMATION NO.
10/594,428 TITLE OF INVENTION	09/26/2006 C: CONDITION DETECT	TING SENSOR	Hiroshi Touge			1034290-000005	3252
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nonprovisional	NO	\$1510	\$300		\$0	\$1810	02/15/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
BYTHROW	, PETER M	3662	342-118000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Unl	nge of Correspondence  "Indication form led. Use of a Customer  A TO BE PRINTED ON This ified below, no assignee	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				cument has been filed for	
Please check the appropriate.  4a. The following fee(s):  Issue Fee Publication Fee (N	iate assignee category or	4l permitted)	D. Payment of Fee(s): (I  A check is enclose  Payment by credit  The Director is here	Pleased.	Individual Corpose first reapply any p	pration or other private group previously paid issue fee s attached. the required fee(s), any def	hown above)
	s SMALL ENTITY statu	is. See 37 CFR 1.27.				ENTITY status. See 37 CF	
interest as shown by the i	records of the United Sta	tes Patent and Trademark	Office.			, 3, ••••	
Authorized Signature					Date		
Typed or printed name			Registration No.				
an application Confident	tiality is governed by 35 application form to the tons for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR	1.14 This collection is	s esti	imated to take 12 min	public which is to file (and utes to complete, including nents on the amount of tin Idemark Office, U.S. Depa END TO: Commissioner f	gathering preparing and

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10/594,428	09/26/2006	Hiroshi Touge	1034290-000005	3252	
21839 75	590 11/15/2010		EXAMINER		
BUCHANAN, IN	NGERSOLL & ROO	BYTHROW, PETER M			
POST OFFICE BO		ART UNIT	PAPER NUMBER		
ALEXANDRIA, V	/A 22313-1404		3662		
		DATE MAIL ED: 11/15/2010			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1085 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1085 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/594,428	TOUGE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	PETER BYTHROW	3662	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE	(OR REMAINS) CLOSED in or other appropriate committee (ORTS). This application is	n this application. If not included unication will be mailed in due cours	se. THIS
<del>_</del>			
2. ☑ The allowed claim(s) is/are <u>1-5</u> .			
3.  Acknowledgment is made of a claim for foreign priority ur  a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be submained in the submained in	e been received. e been received in Application cuments have been received of this communication to file MENT of this application.  iitted. Note the attached EXA es reason(s) why the oath of the submitted. son's Patent Drawing Reviews Amendment / Comment of the	on No  In this national stage application for the areply complying with the requirer AMINER'S AMENDMENT or NOTICE of declaration is deficient.  In the Office action of the drawings in the front (not the back	ments CE OF
<ul> <li>6. □ DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> <li>Attachment(s)</li> <li>1. ☒ Notice of References Cited (PTO-892)</li> <li>2. □ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ul>	FOR THE DEPOSIT OF BIOUS FOR THE DEPOSIT OF BIOUS FOR THE DEPOSIT OF BIOUS FOR THE POSIT O	DLOGICAL MATERIAL.  formal Patent Application  ummary (PTO-413),	the
3. ☑ Information Disclosure Statements (PTO/SB/08),		/Mail Date Amendment/Comment	
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	Statement of Reasons for Allowand	ce

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## **DETAILED ACTION**

# **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Information Disclosure Statement

2. The information disclosure statements filed 09/26/2006 have been entered and considered. Initialed copies of the PTO-1449 by the Examiner are attached.

### Oath/Declaration

3. The oath filed on 09/26/2006 is acceptable.

### **Drawings**

4. The drawings filed on 09/26/2006 are acceptable.

## Allowable Subject Matter

- 5. Claims 1-5 are allowed.
- 6. The following is an examiner's statement of reasons for allowance: the prior art fails to teach all of the limitations of the claimed invention. Specifically, the prior art fails to disclose a condition detecting sensor comprising a first and second antenna, mounted on first and second respective members, said members moving toward and away from each other, further comprising, a mixer and a bandpass filter, wherein the sensor determines the distance between the two members as well as the presence of an obstruction based on the strength of the signal output from the filter.

The closest art is considered to be U.S. Patent 6,456,916 to Edgar et al. which discloses a position and proximity sensor system disposed in a power window of a vehicle. Edgar teaches measuring the position of the window using a window positioning sensor, and determining the presence of an obstruction utilizing a proximity sensor which may include electromagnetic sensors (column 3 lines 35-40).

In addition, several instance of prior art disclose the use of capacitive measuring devices for determining the presence of an obstruction between two members moving towards and away from each other, but do not disclose all of the features of the claimed invention, in whole or in combination with other prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PETER BYTHROW whose telephone number is (571)270-1468. The examiner can normally be reached on 9-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on (571)2726979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3662

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Peter M. Bythrow Examiner, Art Unit 3662

/Thomas H. Tarcza/ Supervisory Patent Examiner, Art Unit 3662